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NEWS 16 JUN 19 CAS REGISTRY includes selected substances from
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NEWS 17 JUN 25 CA/CAplus and USPAT databases updated with IPC
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NEWS 21 JUN 30 STN AnaVist enhanced with database content from EPFULL
NEWS 22 JUL 28 CA/CAplus patent coverage enhanced
NEWS 23 JUL 28 EPFULL enhanced with additional legal status
information from the epoline Register
NEWS 24 JUL 28 IFICDB, IFIPAT, and IFIUDB reloaded with enhancements
NEWS 25 JUL 28 STN Viewer performance improved

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STRUCTURE FILE UPDATES: 27 JUL 2008 HIGHEST RN 1036536-16-9
DICTIONARY FILE UPDATES: 27 JUL 2008 HIGHEST RN 1036536-16-9

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```
=> e 2-pentene/cn
E1          1    2-PENTENANILIDE, 5-BENZOYL-3-CHLORO-4-OXO-/CN
E2          1    2-PENTENARIC ACID, 2,3,4-TRIDEOXY-3-((2,3-O-(1-METHYLETHYLIDENE)-5-O-(4-NITROBENZOYL)-A-D-RIBOFURANOSYL)OXY)-, DIE
E3          1 --> 2-PENTENE/CN
E4          1    2-PENTENE OXIDE/CN
E5          1    2-PENTENE RADICAL CATION/CN
E6          1    2-PENTENE(DITHIOIC) ACID, 2,2-DIMETHYL-, METHYL ESTER, (E)-/
E7          1    2-PENTENE(DITHIOIC) ACID, 2,4-DIMETHYL-, ETHYL ESTER/CN
E8          1    2-PENTENE(DITHIOIC) ACID, 2-(DIETHOXYPHOSPHINYL)-4,4-DIMETHYL-, ETHYL ESTER, (E)-/CN
E9          1    2-PENTENE(DITHIOIC) ACID, 2-CYANO-3-ETHOXY-, ETHYL ESTER/CN
E10         1    2-PENTENE(DITHIOIC) ACID, 2-METHYL-3-(PHENYLAMINO)-, ETHYL ESTER/CN
E11         1    2-PENTENE(DITHIOIC) ACID, 3-BROMO-2,4,4,5,5-PENTAFLUORO-, ETHYL ESTER/CN
```

E12 1 2-PENTENE(DITHIOIC) ACID, 3-HYDROXY-2-METHYL-, ETHYL ESTER/C
N

=> s e3

L1 1 2-PENTENE/CN

=> e 1-pentene/cn

E1	1	1-PENTEN-5-YL 3-(BENZENESULFONYL)-3-(CARBOMETHOXY)PROPANOATE /CN
E2	1	1-PENTENAMINE, N-FLUORO-1-(NITROAMINO)-/CN
E3	1	--> 1-PENTENE/CN
E4	1	1-PENTENE CATION RADICAL/CN
E5	1	1-PENTENE OXIDE/CN
E6	1	1-PENTENE POLYMER/CN
E7	1	1-PENTENE PRIMARY OZONIDE/CN
E8	1	1-PENTENE RADICAL CATION/CN
E9	1	1-PENTENE, (2-PROPYNYL)-/CN
E10	1	1-PENTENE, 1,1'-(METHYLENEBIS(SULFONYL))BIS-, (1E,1'E)-/CN
E11	1	1-PENTENE, 1,1'-OXYBIS-/CN
E12	1	1-PENTENE, 1,1'-SULFONYLBIS(2-METHYL-/CN

=> s e3

L2 1 1-PENTENE/CN

=> file caplus

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FILE COVERS 1907 - 28 Jul 2008 VOL 149 ISS 5
FILE LAST UPDATED: 27 Jul 2008 (20080727/ED)

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Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

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=> s l1 and l2

1322 L1

4410 L2

L3 652 L1 AND L2

=> s l2 and alkylaryl

4410 L2
5301 ALKYLARYL
15 ALKYLARYLS
5313 ALKYLARYL
(ALKYLARYL OR ALKYLARYLS)
L4 3 L2 AND ALKYLARYL

=> s 13 and alkylaryl
5301 ALKYLARYL
15 ALKYLARYLS
5313 ALKYLARYL
(ALKYLARYL OR ALKYLARYLS)
L5 1 L3 AND ALKYLARYL

=> s 11
L6 1322 L1

=> s 11 and alkylaryl
1322 L1
5301 ALKYLARYL
15 ALKYLARYLS
5313 ALKYLARYL
(ALKYLARYL OR ALKYLARYLS)
L7 4 L1 AND ALKYLARYL

=> s 17 or 15
L8 4 L7 OR L5

=> d 18 ibib ab tot

L8 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2005:588884 CAPLUS
DOCUMENT NUMBER: 143:99312
TITLE: Method for producing alkylarylsulfonate surfactants
INVENTOR(S): Bottke, Nils; Tropsch, Juergen; Narbeshuber, Thomas;
Stephan, Juergen; Roeper, Michael; Heidemann, Thomas;
Steinbrenner, Ulrich; Benfer, Regina
PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 28 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005061447	A2	20050707	WO 2004-EP14444	20041217
WO 2005061447	A3	20070104		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, SM RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10360026	A1	20050721	DE 2003-10360026	20031219
CA 2544867	A1	20050707	CA 2004-2544867	20041217

EP 1697314	A2	20060906	EP 2004-804045	20041217
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, BA, HR, IS, YU				
BR 2004017365	A	20070410	BR 2004-17365	20041217
CN 1997611	A	20070711	CN 2004-80037813	20041217
MX 2006PA05942	A	20060809	MX 2006-PA5942	20060525
US 20070142258	A1	20070621	US 2006-583140	20060616
PRIORITY APPLN. INFO.:			DE 2003-10360026	A 20031219
			WO 2004-EP14444	W 20041217

AB The production of alkylaryl compds. comprises: (A) the reaction of a C4-5 olefin mixture on a metathesis catalyst to produce a C4-8 olefin mixture containing 2-pentene and the optional isolation of the C4-8 olefin mixture; (B) isolation of 5-100% of the 2-pentenes obtained in step (A) and subsequent reaction on an isomerization catalyst to form a mixture of 2-pentenes and 1-pentene which is returned to stage (A); (C) dimerization of the C4-8 olefin mixture obtained in stage (B) after the isolation process to form a mixture containing C8-16 olefins, isolation of the C8-16 olefins and optional isolation of a partial stream of the latter; (D) reaction of the C8-16 olefin mixts. obtained in stage (c) or the partial stream with an aromatic hydrocarbon in the presence of an alkylation catalyst to form alkyl aromatic compds. where prior to the reaction an addnl. 0-60% linear olefins, in relation to the C8-16 olefin mixts. obtained in stage (C), can be added; (E) optional sulfonation of the alkylaroms. obtained in stage (D) and neutralization to form alkylarylsulfonates, where prior to the sulfonation an addnl. 0-60% linear alkylbenzols, in relation to the alkyl aromatic compds. obtained in stage (D), can be added, provided that there were no admixts. in stage (D); (F) optional mixing of the alkylarylsulfonates obtained in stage (E) with 0-60% linear alkylarylsulfonates, in relation to the alkylaryl sulfonates obtained in stage (E), provided that there were no admixts. in stages (D) and (E). The alkylarylsulfonates may be used for surfactant applications.

L8 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2004:525983 CAPLUS
 DOCUMENT NUMBER: 141:73351
 TITLE: Manufacture of alkylarylsulfonates from branched dimerized olefins
 INVENTOR(S): Narbeshuber, Thomas; Steinbrenner, Ulrich; Wiebelhaus, Dag; Bottke, Nils
 PATENT ASSIGNEE(S): BASF Ag, Germany
 SOURCE: Ger. Offen., 18 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10261481	A1	20040701	DE 2002-10261481	20021223
CA 2511184	A1	20040715	CA 2003-2511184	20031222
WO 2004058692	A1	20040715	WO 2003-EP14712	20031222
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK,				

TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003300221	A1	20040722	AU 2003-300221	20031222
EP 1581485	A1	20051005	EP 2003-799498	20031222
EP 1581485	B1	20070321		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003017634	A	20051129	BR 2003-17634	20031222
CN 1732150	A	20060208	CN 2003-80107360	20031222
JP 2006511578	T	20060406	JP 2004-562814	20031222
AT 357430	T	20070415	AT 2003-799498	20031222
ES 2283873	T3	20071101	ES 2003-799498	20031222
MX 2005PA05936	A	20050818	MX 2005-PA5936	20050603
US 20060052630	A1	20060309	US 2005-538473	20050607
ZA 2005005050	A	20060927	ZA 2005-5050	20050622
PRIORITY APPLN. INFO.:			DE 2002-10261481	A 20021223
			WO 2003-EP14712	W 20031222

AB A process for the manufacture of alkylarylsulfonates with proper degree of alkyl branching, useful as surfactants with improved property profiles, comprises (a) conversion of C4 olefin mixts. in the presence of metathesis catalysts to give mixts. containing 2-pentene and 3-hexene, (b) catalytic dimerization of 2-pentene and/or 3-hexene to give C10-12 olefin mixts. and separation of C10-12 olefins from low-boiling byproducts, (c) catalytic alkylation of aromatic compound with C10-12 olefins, and (d) sulfonation of alkylaryl compds. and neutralization of the resulting alkylarylsulfonates. For example, passing a butadiene-free C4 fraction containing butenes (1:1.06 resp. mixture of 1-butene and 2-butene) over Re2O7/Al2O3 catalyst at 40°/10 bar gave a reaction mixture from which >99% pure 2-pentene and 3-hexene were separated by distillation. Continuous dimerization of the latter mixture over a known heterogeneous catalyst gave a decene/undecene/dodecene fraction with purity 99.5%.

L8 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2002:428843 CAPLUS
 DOCUMENT NUMBER: 137:21788
 TITLE: Method for the production of alkylarenesulfonates
 INVENTOR(S): Narbeshuber, Thomas; Steinbrenner, Ulrich; Krack, Gerhard
 PATENT ASSIGNEE(S): Basf Aktiengesellschaft, Germany
 SOURCE: PCT Int. Appl., 46 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002044114	A1	20020606	WO 2001-EP13322	20011116
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10059398	A1	20020613	DE 2000-10059398	20001130
CA 2431189	A1	20020606	CA 2001-2431189	20011116
AU 2002021862	A	20020611	AU 2002-21862	20011116
EP 1343742	A1	20030917	EP 2001-998522	20011116
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				

	IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
BR 2001015857	A	20031014	BR 2001-15857	20011116
JP 2004523489	T	20040805	JP 2002-546484	20011116
MX 2003PA04904	A	20031015	MX 2003-PA4904	20030530
US 20040030209	A1	20040212	US 2003-432361	20030530
PRIORITY APPLN. INFO.:			DE 2000-10059398	A 20001130
			WO 2001-EP13322	W 20011116

AB The production of alkylaryl compds. is achieved by the following steps: (1) production of an olefin mixture, comprising, as a statistical mean, predominantly single-branched C10-14 olefins, by means of (a) reaction of a C4 olefin mixture on a metathesis catalyst to give an olefin mixture containing 2-pentene and/or 3-hexene and optional separation of 2-pentene and/or 3-hexene, followed by dimerization of the obtained 2-pentene and/or 3-hexene on a dimerization catalyst to give a mixture containing C10-12 olefins and optional separation of the C10-12 olefins, or (b) extraction of predominantly single-branched

paraffins from kerosene fractions and subsequent dehydrogenation, or (c) Fischer-Tropsch synthesis of olefins or paraffins, whereby the paraffins are dehydrogenated, or (d) dimerization of short-chain internal olefins, or (e) isomerization of linear olefins or paraffins, whereby the isomerized paraffins are dehydrogenated, (2) reaction of the olefin mixture obtained in step (1) with an aromatic hydrocarbon in the presence of an alkylation catalyst containing zeolites of the faujasite type. The metathesis catalysts are selected from from compds. of Group VIB, VIIB, or VIII metals. These compds. are sulfonated to give products useful in detergents.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1978:104644 CAPLUS
 DOCUMENT NUMBER: 88:104644
 ORIGINAL REFERENCE NO.: 88:16400h,16401a
 TITLE: Olefin metathesis process and catalyst
 INVENTOR(S): Castner, Kenneth F.
 PATENT ASSIGNEE(S): Goodyear Tire and Rubber Co., USA
 SOURCE: U.S., 7 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4060468	A	19771129	US 1976-729315	19761004
PRIORITY APPLN. INFO.:			US 1976-729315	19761004
AB A catalyst useful for olefin metathesis was prepared. It consisted of a salt selected from WC16, WC15, WC14, WBr5, WOC14, WO2Cl2 and WOBr4 and an oxygenated organic compound, e.g., I (R = H, Cl, Br, S, alkyl, aryl, arylalkyl, alkylaryl, cycloalkyl; R1 = Cl, Br, S, Me, Me2CH, Me3C) and II. The mixture was exposed to UV irradiation for at least long enough to give .apprx.0.4 KWH/mol of the W salt. A mixture of 2-pentene isomers was treated with a catalyst prepared from C6Cl5OH and WC16 and converted to 2-butene and 3-hexene. Polymerization reactions with dicyclopentadiene cyclopentene and cyclooctadiene were performed over the same catalyst.				

=> log y

COST IN U.S. DOLLARS

SINCE FILE ENTRY	TOTAL SESSION
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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-3.20	-3.20

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